L calised leak detecti n for c ntainers or h usings

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Abstract of **DE19535720**

The method provides localised testing for leaks in containers and/or housings. A test fluid acts on test object. The fluid is pressurised relative to surroundings such that when there is a leak, fluid leaks out from the test object. The point of the leak may be illuminated by light. The test fluid and the light are matched to each other such that the photoacoustic effect can appear. The resulting sound signal can then be detected by sound detector. The test o is only partly illuminated by a spatially limited light bundle. The incident area of light bundle on test object is mov over all points to be examined. When there is a leak, photoacoustically generated sound is detected from the sc detector and characterising parameters are analysed. In dependence on the derived information signal level the characteristic properties of the light bundle are varied such that a closed feedback loop results. The existence of leak is recognised from the closing of the loop. The location of leak is determined from position of light bundle.